

Docket No. 00-091-DSK

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**CLAIMS:**

What is claimed is:

- 5 1. A method for sampling data signals between  
electronic components, comprising:  
connecting the electronic components by using a  
straight feed-through connector wherein the straight  
feed-through connector has connecting pins;  
10 attaching one end of a flexible circuit to the  
connecting pins of the feed-through connector; and  
attaching an opposite end of the flexible circuit to  
a display.
- 15 2. The method according to claim 1, wherein the  
flexible circuit is attached to the connector pins by  
means of soldering.
3. The method according to claim 1, wherein the  
20 flexible circuit is attached to the connector by a  
unidirectional locking tine.
4. The method according to claim 1, wherein the  
flexible circuit is attached to the connector by a wire  
25 trap.
5. The method according to claim 1, wherein the display  
is a light emitting diode (LED).

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6. The method according to claim 1, wherein the display constitutes a field replaceable unit (FRU).

7. The method according to claim 1, wherein the data  
5 sampling can be used for detection of fault signals, status, idle signals, error checking, and introduction of a signal analyzer.

8. A system for sampling data signals between electronic components, comprising:

10 a straight feed-through connector for connecting the electronic components wherein the straight feed-through connector has connecting pins;

means for attaching one end of a flexible circuit to the connecting pins of the feed-through connector; and

15 means for attaching the opposite end of the flexible circuit to a display.

9. The system according to claim 8, wherein the flexible circuit is attached to the connector pins by  
20 means of soldering.

10. The system according to claim 8, wherein the flexible circuit is attached to the connector by a unidirectional locking tine.

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11. The system according to claim 8, wherein the flexible circuit is attached to the connector by a wire trap.

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13. The system according to claim 8, wherein the display constitutes a field replaceable unit (FRU).

10 a signal analyzer.

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